

COMPARATIVE STUDY ON THE EFFICACY OF IONISED SILVER SOLUTION DRESSING WITH CONVENTIONAL DRESSING IN DIABETIC FOOT ULCERS

ABSTRACT

AIM AND OBJECTIVES:

To study the efficacy of ionized silver solution dressing in the management of diabetic foot ulcer in comparison with conventional wound dressing. Ulcer is assessed at the baseline, 3 week and 5 weeks and look for a) Overall reduction in ulcer size b) Length of the hospital stay c) Number of dressings required.

STUDY DESIGN: prospective and comparative study

PLACE OF STUDY: Govt. Kilpauk medical college hospital

Material and Methods: 50 patients will be divided into two groups: Conventional dressing group and silver dressing group. Conventional dressings group will be managed with debridement and povidone iodine dressings. Silver dressing group with debridement and application of ionic silver solution dressing. . Ulcer is assessed at the baseline, 3 weeks and 5 weeks to measure overall healing rate , number of dressings needed, length of the hospital stay.

RESULTS: . Average duration of hospital stay is 2- 3 weeks in silver dressing group and in conventional dressing group a patient stay for 4-5 weeks and P value<0.05 and is highly significant. Percentage reduction of ulcer is between 81-99% in 76%patients of silver solution dressing group. While only 20% patients in conventional dressing group. P value is <0.001 and is highly significant. Number of dressings

required per patient is 11 in silver dressing group and is 18 in conventional dressing group, P value<0.001 and is significant.

CONCLUSION: Ionic silver dressings are safe, effective, with a beneficial edge to the conventional dressing with solutions like povidone iodine in terms of promoting wound healing, and are more patient compliant in view of overall reduction in the ulcer size, Less number of dressings required, Less duration of hospital stay.

KEY WORDS: dressing, ionic silver, povidone iodine, ulcer size, hospital stay.